

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004793

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H01Q9/42, 1/38, 5/01, 9/38

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> · H01Q9/42, 1/38, 5/01, 9/38, 9/46, 9/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005  
 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-218623 A (NGK Insulators, Ltd.), 31 July, 2003 (31.07.03), Par. No. [0037]; Fig. 9 (Family: none)	1-12
Y	JP 2003-69331 A (Hitachi Metals, Ltd.), 07 March, 2003 (07.03.03), Par. Nos. [0024], [0040]; Figs. 3, 23 & US 2003-0006936 A1 & EP 001267441 A2 & CN 001407832 A	1-12
Y	JP 2002-314322 A (The Furukawa Electric Co., Ltd.), 25 October, 2002 (25.10.02), Fig. 1 & US 2002-0149538 A1 & EP 001231669 A1 & CN 001369928 A & TW 000513827 B	2-10

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
09 May, 2005 (09.05.05)

Date of mailing of the international search report  
24 May, 2005 (24.05.05)

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